

Substitute for form 1449A/PTO

## Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

1

of

Application Number 10/541,182  
 Filing Date 01/07/2004  
 First Named Inventor David L. Kaplan  
 Invent Unit 1657  
 Examiner Name K.C. Srivastava  
 Attorney Docket Number 700355-053462

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/K.S./ ↓ /K.S./	A1	US- 5171505	12/15/1992	Lock	
	A2	US- 5252285	12/12/1993	Lock	
	A3	US- 6110590	08/29/2000	Zarkoob, et al.	
	A4	US- 2004/0224406 A1	11/11/2004	Altman, et al.	
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## FOREIGN PATENT DOCUMENTS

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/K.S./	B1	WO 01/54667	A1 08/02/2001	Smithkline Beecham Corporation		
/K.S./	B2	WO 01/80921	A2 11/01/2001	Emory University		

Examiner Signature /Kailash C. Srivastava/

Date Considered

07/03/2009

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Sheet 1 of 2

Complete If Known	
Application Number	10/541,182
Filing Date	01/07/2004
First Named Inventor	David L. Kaplan
Art Unit	1.657
Examiner Name	K.C. Srivastava
Attorney Docket Number	700355-053462

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	C1	ANTHANASIOU, ET AL., "Sterilization, toxicity, biocompatibility and clinical applications of polylactic acid/polyglycolic acid copolymers," Biomaterials, 1996, Vol. 17 ( No. ), p. 93-102,	
	C2	BOGNITZKI, ET AL., "Nanostructured Fibers via Electrospinning," Adv Mater, 2001, Vol. 13 ( No. 1), p. 70-72,	
	C3	BOLAND, ET AL., "Electrospinning of Tissue Engineering Scaffolds," Polymeric Materials: Science & Engineering, 2001, Vol. 85 ( No. ), p. 51-52,	
	C4	CATERSON, ET AL., "Three-dimensional cartilage formulation by bone marrow-derived cells seeded in poly(lactide)/alginate amalgam," Biomed Mater Res, 2001, Vol. 57 ( No. ), p. 394-403,	
	C5	DAL PRA, ET AL., "Silk Fibron-Coated Three-Dimensional Polyurethane Scaffolds for Tissue Engineering: Interactions with Normal Human Fibroblasts," Tissue Engineering, 2003, Vol. 9 ( No. 6), p. 1113-1121,	
	C6	DOSHI, ET AL., "Electrospinning Process and Applications of Electrospun Fibers," Journal of Electrostatics, 1995, Vol. 35 ( No. ), p. 151-160,	
	C7	HOLY, ET AL., "Use of a biomimetic strategy to engineer bone," J Biomed Mater Res, 2003, Vol. 65A ( No. ), p. 447-453,	
	C8	HUTMACHER, "Scaffolds in tissue engineering bone and cartilage," Biomaterials, 2000, Vol. 21 ( No. ), p. 2529-2543,	
	C9	JIN, ET AL., "Electrospinning Bombyx mori Silk with Poly(ethylene oxide)," Polymer Preprints (American Chemical Society, Division of Polymer Chemistry), 2002, Vol. 43 ( No. 2), p. 743-744,	
	C10	KARP, ET AL., "Fabrication of Precise Cylindrical Three-Dimensional Tissue Engineering Scaffolds for In Vitro and In Vivo Bone Engineering Applications," The Journal of Craniofacial Surgery, 2003, Vol. 14 ( No. 3), p. 317-323,	

Examiner Signature

/Kailash C. Srivastava/

Date Considered

03/24/2010

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Sheet **2** of **2**

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Application Number	10/541,182
Filing Date	01/07/2004
First Named Inventor	David L. Kaplan
Art Unit	1657
Examiner Name	K.C. Srivastava
Attorney Docket Number	700355-053462

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C11	LI, ET AL., "Study on Porous Silk Fibroin Materials. I. Fine Structure of Freeze Dried Silk Fibroin," J Appl Polym Sci, 2001, Vol. 79 (No. ), p. 2185-2191,	
	C12	MARTIN, ET AL., "Selective differentiation of mammalian bone marrow stromal cells cultured on three-dimensional polymer foams," J Biomed Mater Res, 2001, Vol. 55 (No. ), p. 229-235,	
	C13	NAM, ET AL., "Morphology of Regenerated Silk Fibroin: Effects of Freezing Temperature, Alcohol Addition, and Molecular Weight," J Appl Polym Sci, 2001, Vol. 81 (No. ), p. 3008-3021,	
	C14	OHGUSHI, ET AL., "Calcium Phosphate-Bioactive Ceramic With Bone Marrow Cells in a Rat Long Bone Defect," CRC Handbook of Bioactive Ceramics, Vol. II (No. ), p. 235-236,	
	C15	PEREZ-RIGUEIRO, "Silk worm Silk as an Engineering Material," J Appl Polym Sci, 1998, Vol. 70 (No. ), p. 2439-2447,	
	C16	PETITE, ET AL., "Tissue-engineered bone regeneration," Nature Biotechnology, 2000, Vol. 18 (No. ), p. 959-963,	
	C17	SOFIA, ET AL., "Functionalized silk-based biomaterials for bone formation," J Biomed Mater Res, 2000, Vol. 54 (No. ), p. 139-148,	
	C18	STITZEL, ET AL., "Arterial Smooth Muscle Cell Proliferation on a Novel Biomimicking, Biodegradable Vascular Graft Scaffold," J Biomater Appl, 2001, Vol. 16 (No. ), p. 22-33,	
	C19	ZARKOOB, "Structure and Morphology of Regenerated Silk Nano-Fibers Produced by Electrospinning," A Dissertation Presented to The Graduate Faculty of the University of Akron, August 1998,	
	C20	ZARKOOB, "Structure and Morphology of Nano Electrospun Silk Fibers," Polymer Preprints (American Chemical Society, Division of Polymer Chemistry), 1998, Vol. 39 (No. 2), p. 244-245,	

Examiner Signature	/Kailash C. Srivastava/	Date Considered	03/25/2010
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